

# Material Safety Data Sheet

BNZ Materials, Inc.  
6901 South Pierce Street, Suite 260  
Littleton, Colorado 80123  
Phone: 303-978-1199

Product: MARINITE I, MARINITE

MSDS No: BNZ / 202

Revision: 1

Date: July 29, 1991

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## SECTION I. MATERIAL IDENTIFICATION

Trade/Material Name: MARINITE I, MARINITE M

Description: STRUCTURAL INSULATION BOARD, CALCIUM SILICATE BOARD

Other Designations: FIREPROOF STRUCTURAL INSULATION, MARINE INSULATION BOARD

CAS: NONE ASSIGNED

Chemical Name: CALCIUM SILICATE HYDRATE MIXTURE

Manufacturer: BNZ Materials, Inc.

Phone: 508-663-3401

High Street  
Iron Horse Park  
North Billerica, Mass. 01862

## SECTION II. INGREDIENTS AND HAZARDS

Ingredient Name:	CAS Number:	Percent:	Exposure Limits:
			(Respirable Dust)
			OSHA PEL
CALCIUM SILICATE	1344-95-2	40-50	5mg/M <sup>3</sup>
CALCIUM METASILICATE (WOLLASTONITE)	13983-17-0	45-55	5mg/M <sup>3</sup> *
REINFORCING FILLER			
NATURAL ORGANIC FIBER	65996-61-4	4-6	5mg/M <sup>3</sup>
CALCIUM CARBONATE	13397-26-7	0-5	5mg/M <sup>3</sup>

\* OSHA currently regulates this material as "particulates not otherwise regulated" with a PEL of 15mg/m<sup>3</sup> for total dust, and a PEL of 5mg/M<sup>3</sup> for respirable dust.

## SECTION III. PHYSICAL DATA

Appearance & Odor: Gray board - no odor

Boiling point: NA  
Vapor pressure: NA  
Water solubility (%): NIL  
Vapor density (air=1): NA

Evaporation rate: NA  
Specific gravity (H<sub>2</sub>O=1): .7  
Melting point: NA  
% volatile by volume: 0

## SECTION IV. FIRE AND EXPLOSION DATA

Flash Point (method): This is a  
nonflammable  
product

Limits: LEL %: NA

UEL %: NA

NFPA Fire Hazard Symbol Codes: Flammability: 0 Health: 0 Reactivity: 0 Special: 0

Special fire-fighting procedures: None

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### SECTION V. REACTIVITY DATA

Material is stable . Hazardous polymerization cannot occur .

Chemical incompatibilities: Strong Acids.

Conditions to avoid: None in designed use.

Hazardous decomposition Products: Traces of carbon monoxide may occur during initial heating of the product.

### SECTION VI. HEALTH HAZARD INFORMATION

This product is not considered a carcinogen by NTP, OSHA, and IARC.

Summary of risks: Dusts created during fabrication, installation or demolition of this product can cause irritation to the eyes, skin, and upper respiratory system. This product contains wollastonite, an acicular reinforcement filler. Some studies indicate that long term inhalation of wollastonite dust may result in reduced pulmonary function, or mild industrial bronchitis, particularly in workers who smoke. Exposure to dust from this product should be minimized.

Medical conditions which may be aggravated by contact: Pre-existing upper respiratory and lung disease such as, but not limited to bronchitis, emphysema, and asthma.

Target organs: Eyes, skin, respiratory system.

Primary entry route(s): Inhalation

Acute effects: May cause temporary eye, skin, and upper respiratory irritations.

Chronic effect(s): There are no known chronic health hazards from the normal use of this product. Some medical studies of wollastonite mine and mill workers suggest that long term cumulative exposures to wollastonite dust may decrease pulmonary function. These results were confounded by smoking habits and effects of secondary occupational exposures. Recent medical surveys suggest, but do not confirm, that mild industrial bronchitis may result from wollastonite exposure, particularly in workers who smoke. The fibrous mineral wollastonite was reviewed by IARC, (The International Agency for Research on Cancer), and was categorized as group 3, not classifiable as to its carcinogenicity to humans, based on limited evidence in animals, and inadequate evidence in humans.

Signs & symptoms of overexposure:

Eye contact: Transient mechanical irritant.

Skin contact: Possible irritation from over exposure to dust.

Inhalation: Excessive exposures to product dust may cause upper respiratory irritation.

Ingestion: None

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## HEALTH HAZARD INFORMATION continued from page 2

### First aid:

Eye contact: Flush with copious quantities of water.

Skin contact: Wash with mild soap and water.

Inhalation: Remove to fresh air.

Ingestion: NA

## SECTION VII. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill / Leak procedures: Vacuum dust created during fabrication. If sweeping is necessary, use a dust suppressant.

Waste management / Disposal: Dispose to an approved landfill. Wastes from this product, as manufactured, are not hazardous wastes as defined by RCRA (40 CFR Part 261). During use, other foreign substance contamination may require special disposal procedures. Comply with federal, state, and local regulations.

## SECTION VIII. SPECIAL PROTECTION INFORMATION

### Personal protective equipment:

Goggles: or face shield should be used during cutting, milling, or abraising.

Gloves: Use to protect against minor irritations.

Respirator: Use a mask such as 3M<sup>TM</sup> 8710 or equivalent for protection against dust. Insure proper fit.

Other: Maintain good housekeeping practices to insure minimum dust levels.

### Workplace considerations:

Ventilation: Use sufficient natural or mechanical ventilation to maintain dust concentrations below PEL (TLV).

Contaminated equipment:  
Use respiratory protection if it is necessary to cut or abrade material.

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SECTION IX. SPECIAL PRECAUTIONS

Storage segregation: \*\* Always segregate materials by major hazard class. \*\*

Special handling / storage: \*\* Keep material dry. \*\*

Engineering controls: Power cutting equipment should be equipped for dust collection.

Prepared/revised by: T. W. HARSHALL

July 29, 1991

As of the date of preparation of this document, the foregoing information is based on data considered to be accurate and is provided in good faith to comply with applicable federal and state law. However, no warranty or representation with respect to such information is intended or given.